

FIG. 1

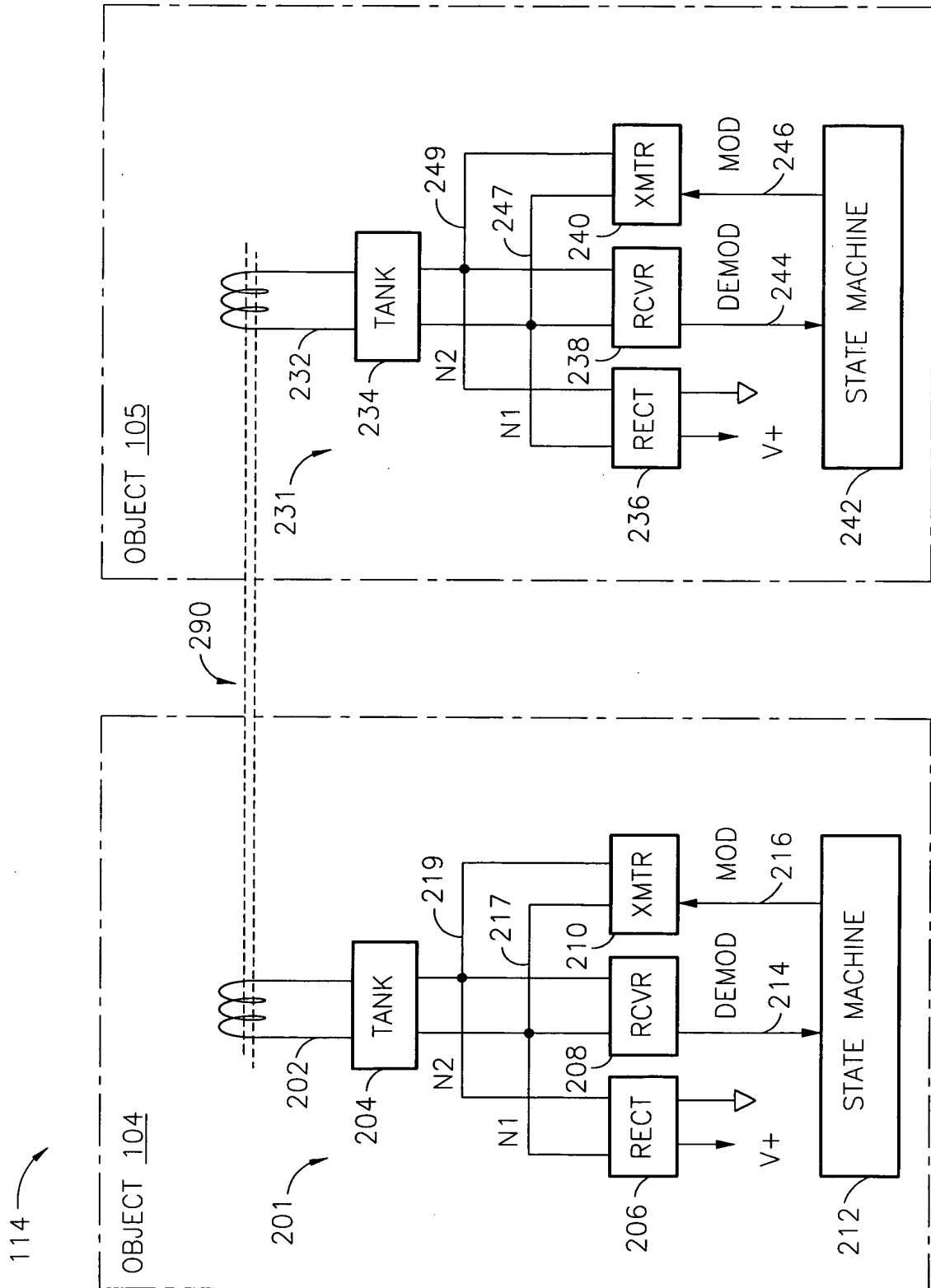


FIG. 2

FOC 000 330 F000

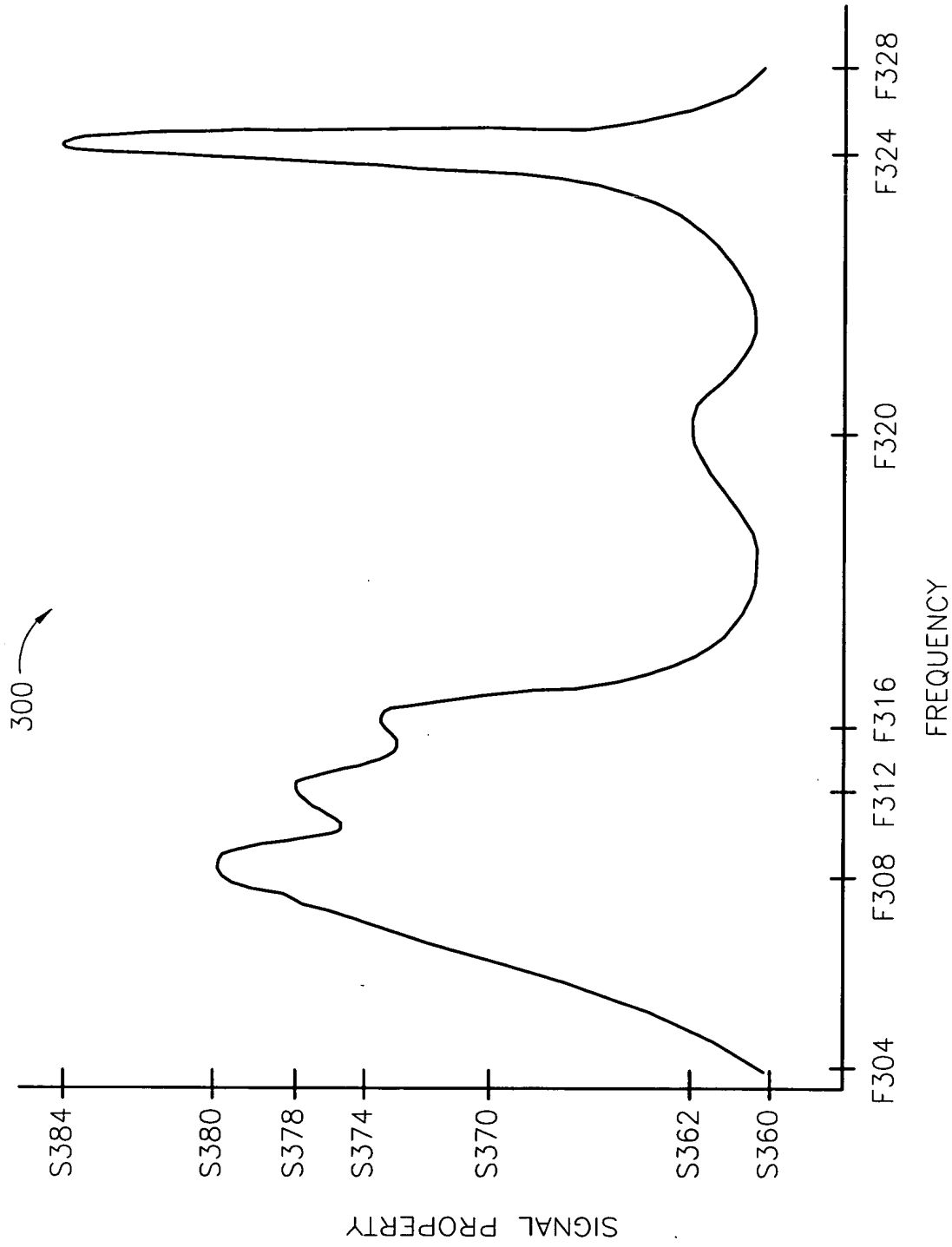


FIG. 3

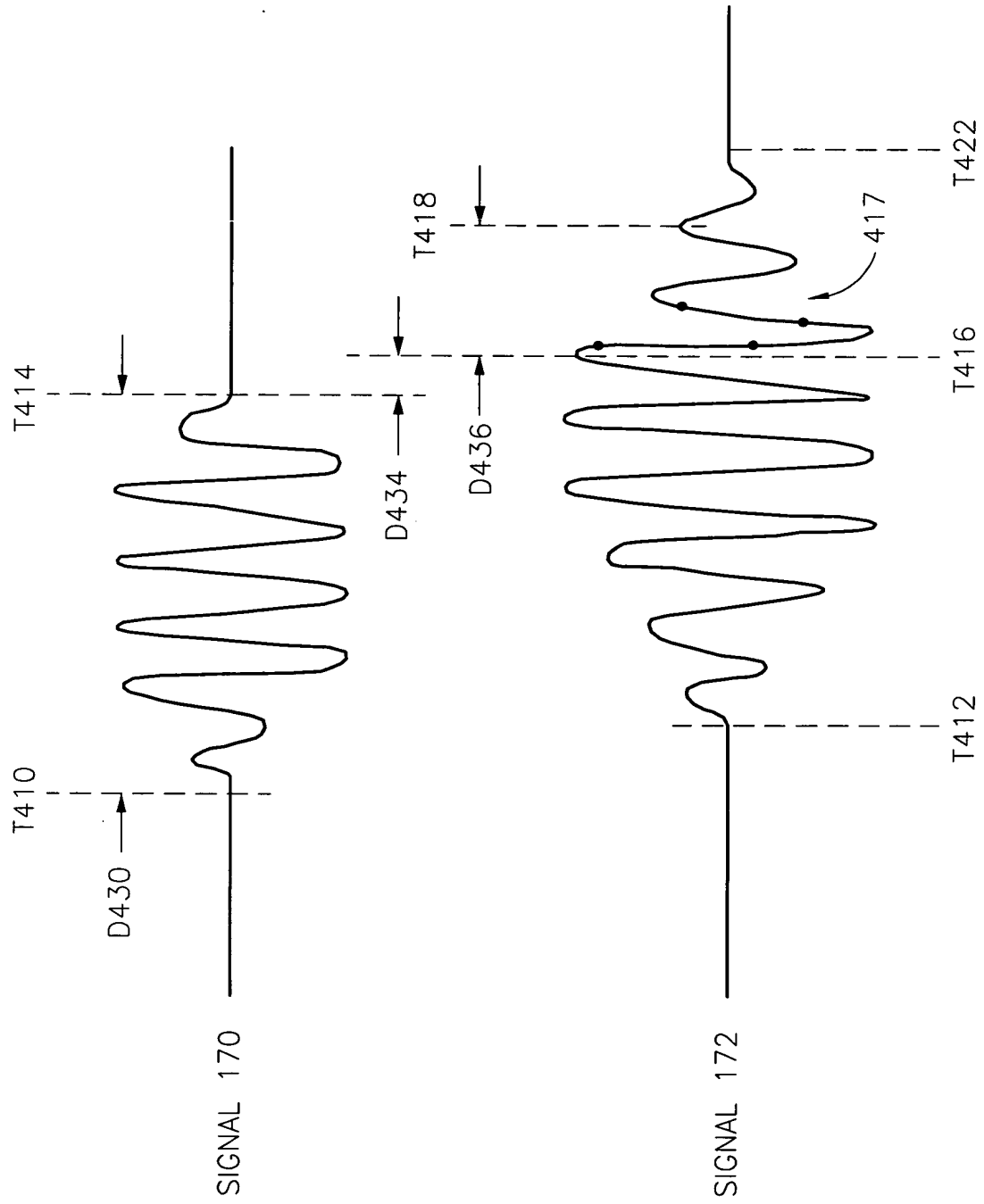


FIG. 4

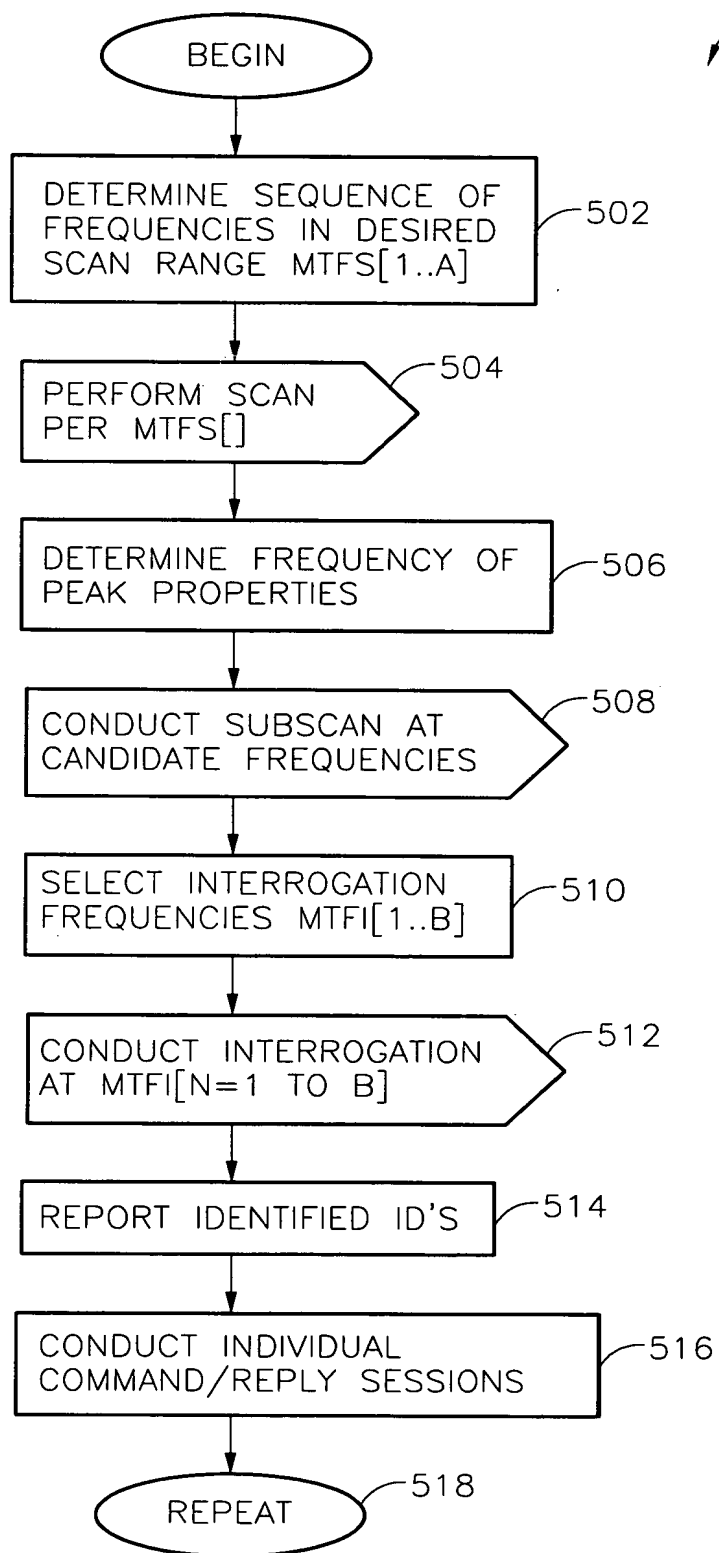


FIG. 5

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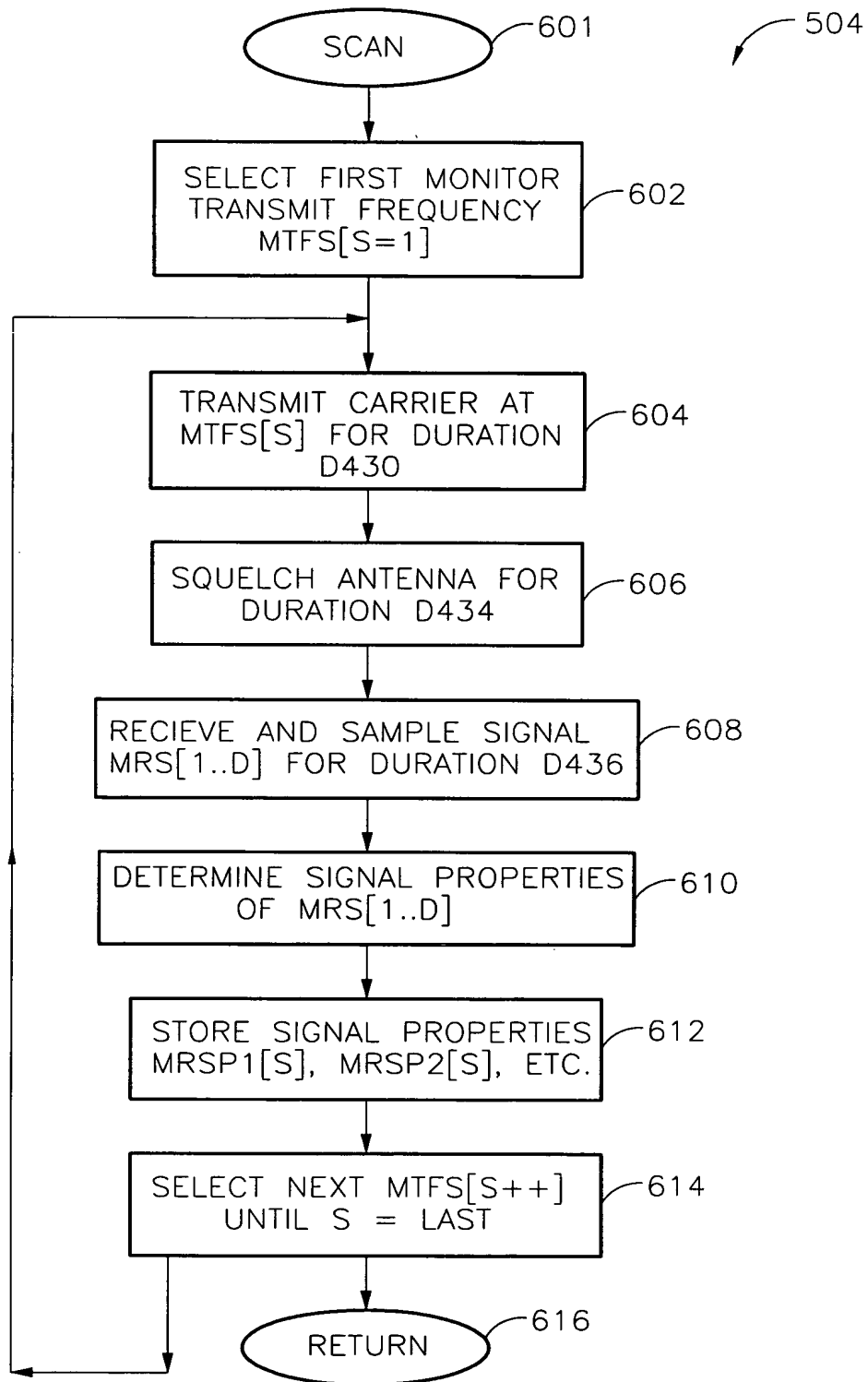


FIG. 6

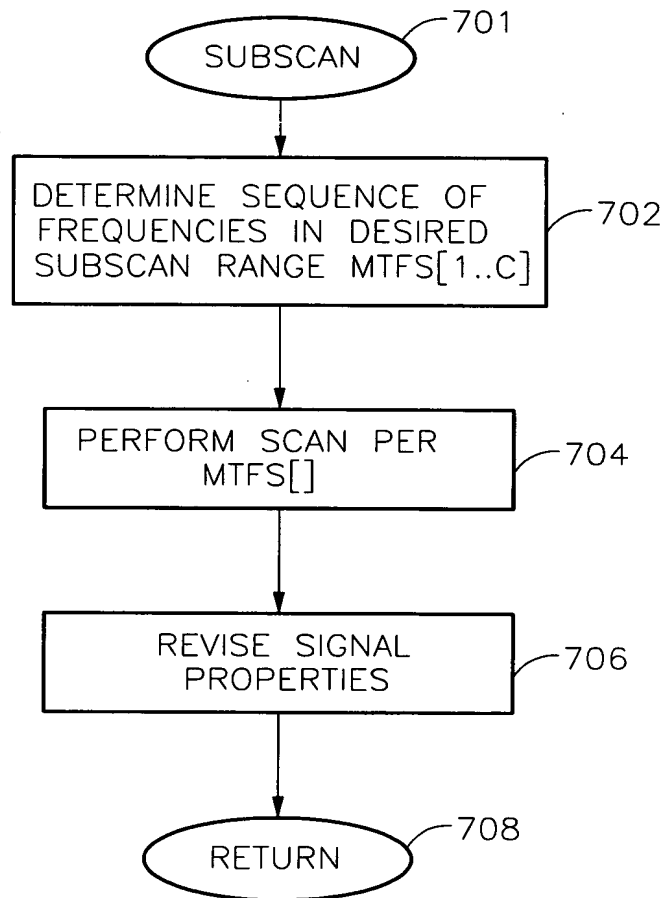


FIG. 7

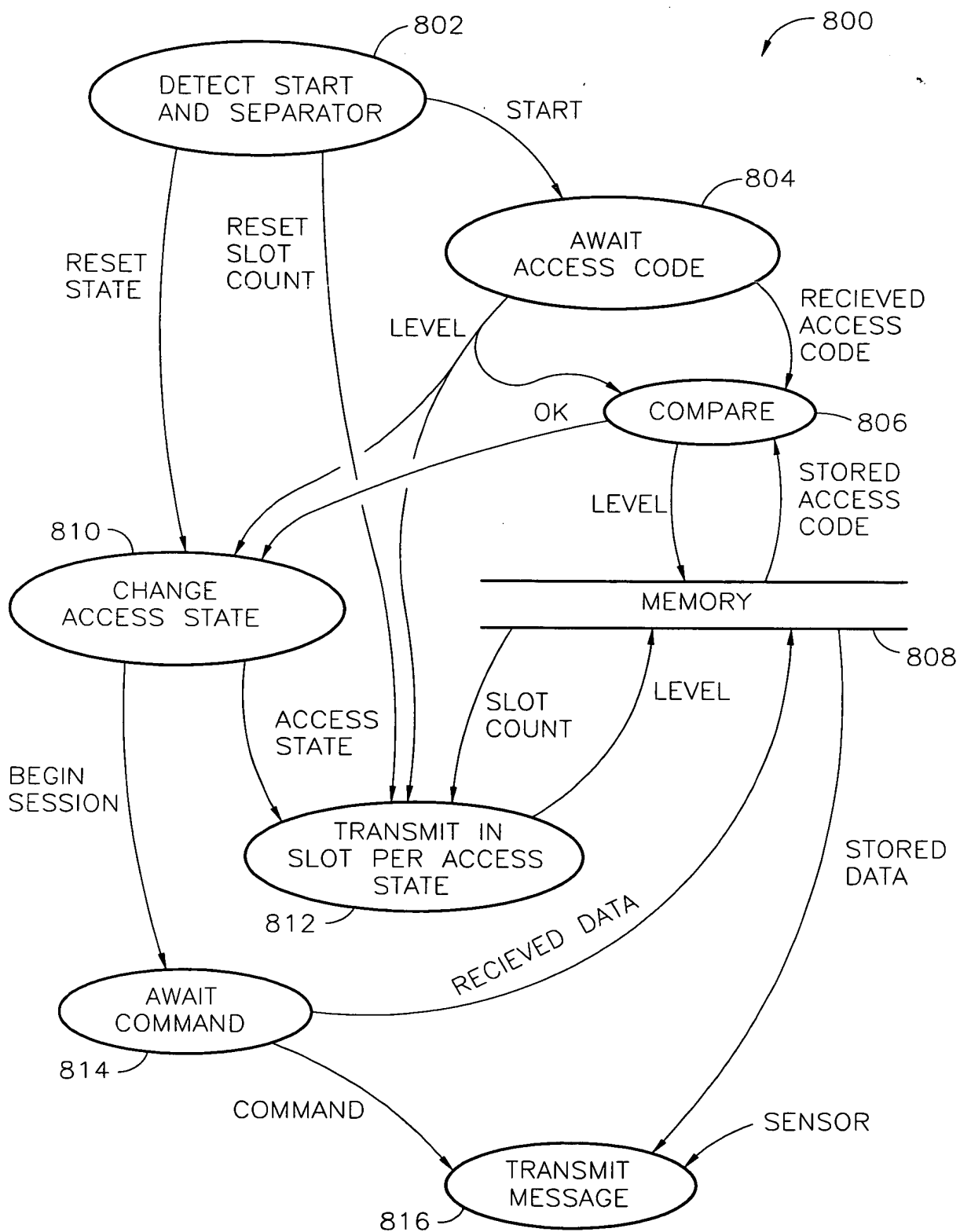


FIG. 8

| COMMANDS | | | |
|------------------------|------|--|-----------|
| PURPOSE | REF. | ACTION BY TRANSCEIVER(S) | SCOPE |
| AFFECT ACCESS STATE | 902 | RESET AN ACCESS STATE BIT | ONE/GROUP |
| | 904 | SET AN ACCESS STATE BIT | ONE/GROUP |
| | 906 | CLEAR SLOT COUNTER | ALL |
| SEND DATA TO XCVR | 908 | ACCEPT DATA FOR STORAGE IN MEMORY | ONE/GROUP |
| | 910 | ACCEPT CONFIGURATION FOR SENSOR | ONE/GROUP |
| OBTAIN REPLY FROM XCVR | 912 | REPLY WITH ACK IN TIME SLOT CORRESPONDING TO EACH XCVR'S RESPECTIVE MEMBERSHIP | GROUP |
| | 914 | REPLY WITH DATA FROM MEMORY | ONE |
| | 916 | REPLY WITH SENSOR DATA | ONE |
| | 918 | REPLY IN TIME SLOT(S) CORRESPONDING TO DATA FROM MEMORY | ONE/GROUP |
| | 920 | REPLY IN TIME SLOT(S) CORRESPONDING TO SENSOR DATA | ONE/GROUP |

FIG. 9

| COMMAND | ARGUMENT | PREREQ. STATE BITS | TIME SLOT INDICATES | STATE BITS SET |
|---------|--|-----------------------|---|-------------------|
| 1000 | GID | NONE | SGID | NONE |
| 1001 | GID | NONE | S ² GID | NONE |
| 1002 | GID | NONE | S ³ GID | NONE |
| 1003 | GID | NONE | MEMBER ID | NONE |
| 1004 | GID | NONE | SGID | B0 |
| 1005 | SGID | B0 | S ² GID | B1 |
| 1006 | S ² GID | B0, B1 | S ³ GID | B2 |
| 1007 | S ³ GID | B0, B1, B2 | MEMBER ID | B3 |
| 1008 | ADDR. OF SENSOR OR MEMORY AND/OR DATA TO STORE | B0, B1, B2, B3 | WRITE ACK. OR DATA FROM SENSOR OR MEMORY | NONE |

FIG. 10

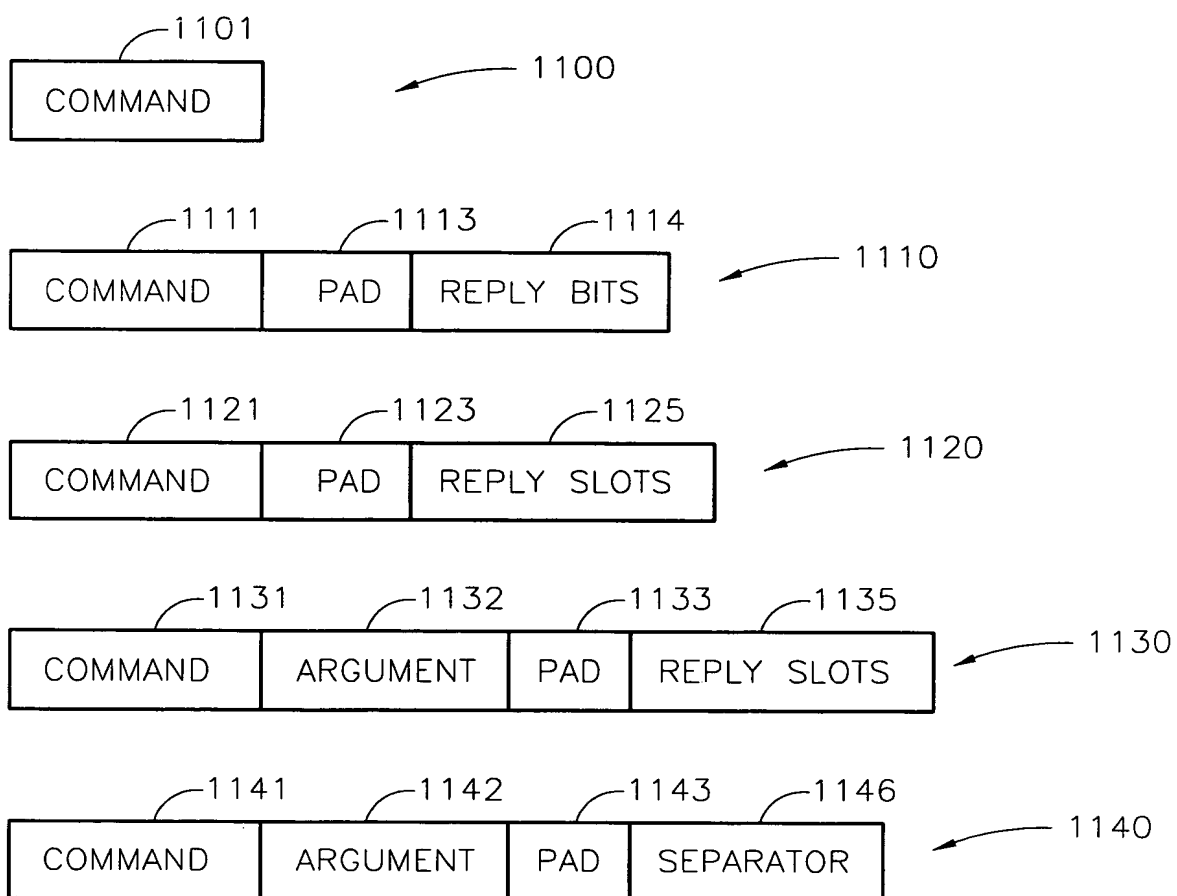


FIG. 11

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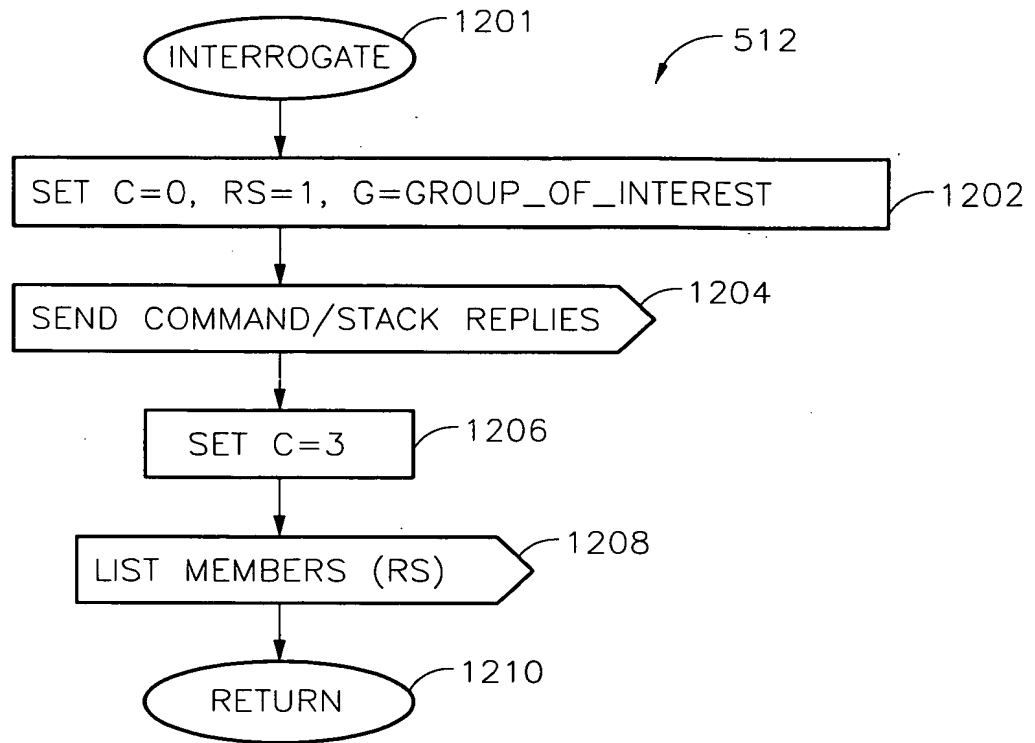


FIG. 12

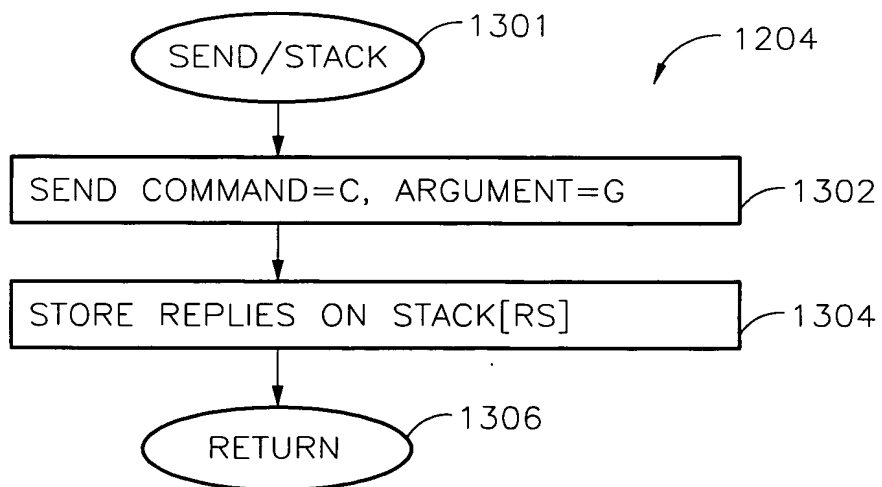


FIG. 13

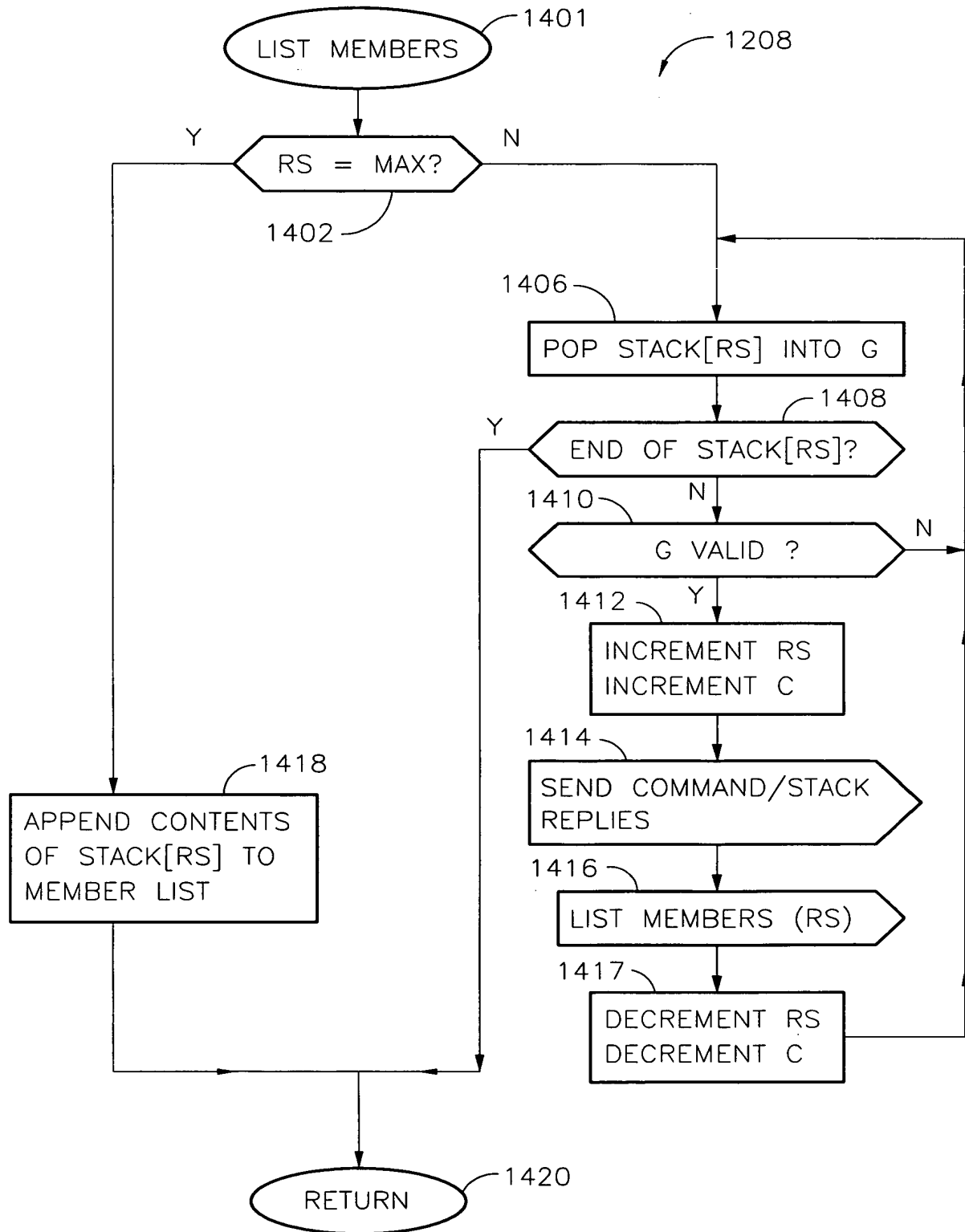


FIG. 14

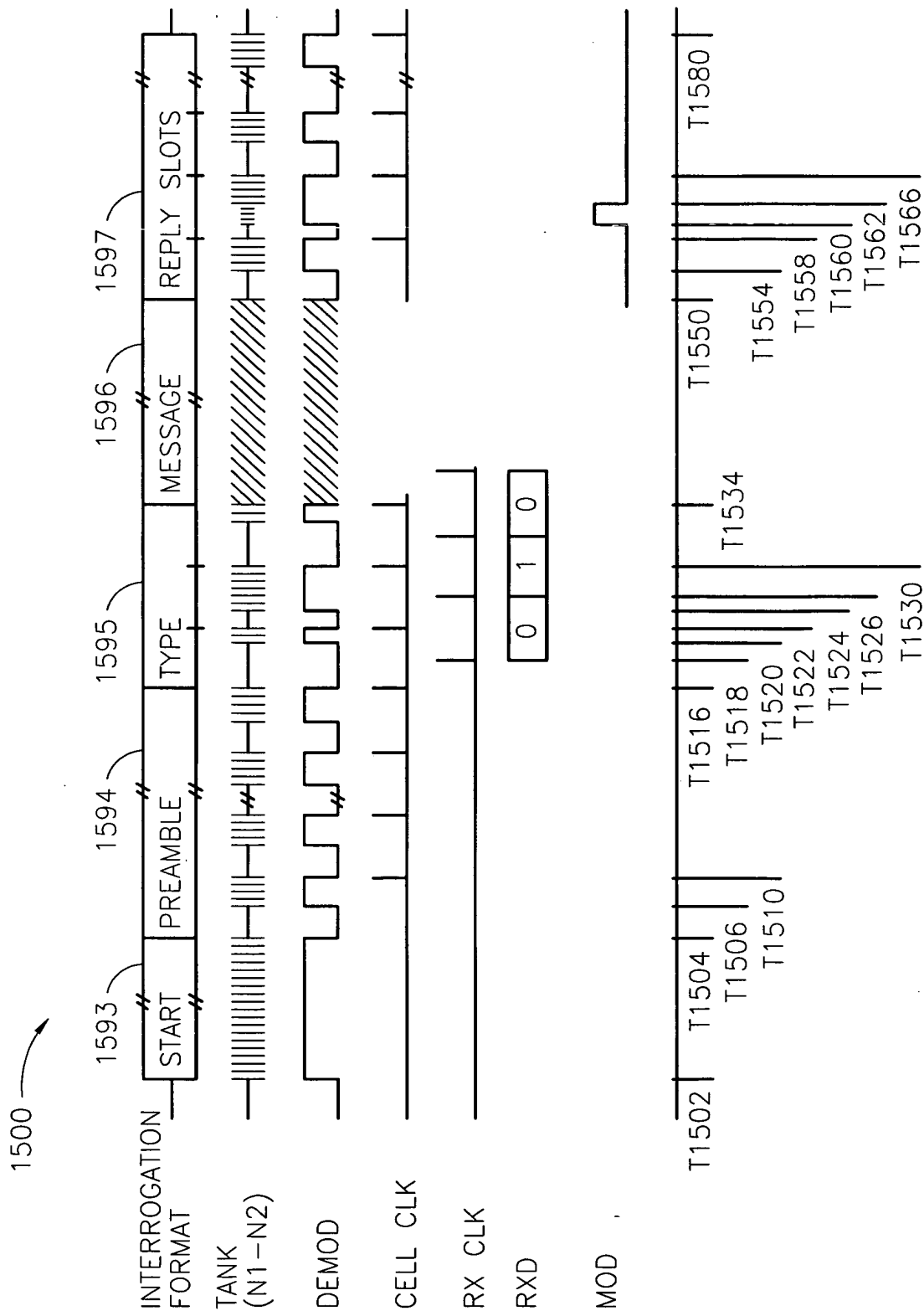


FIG. 15

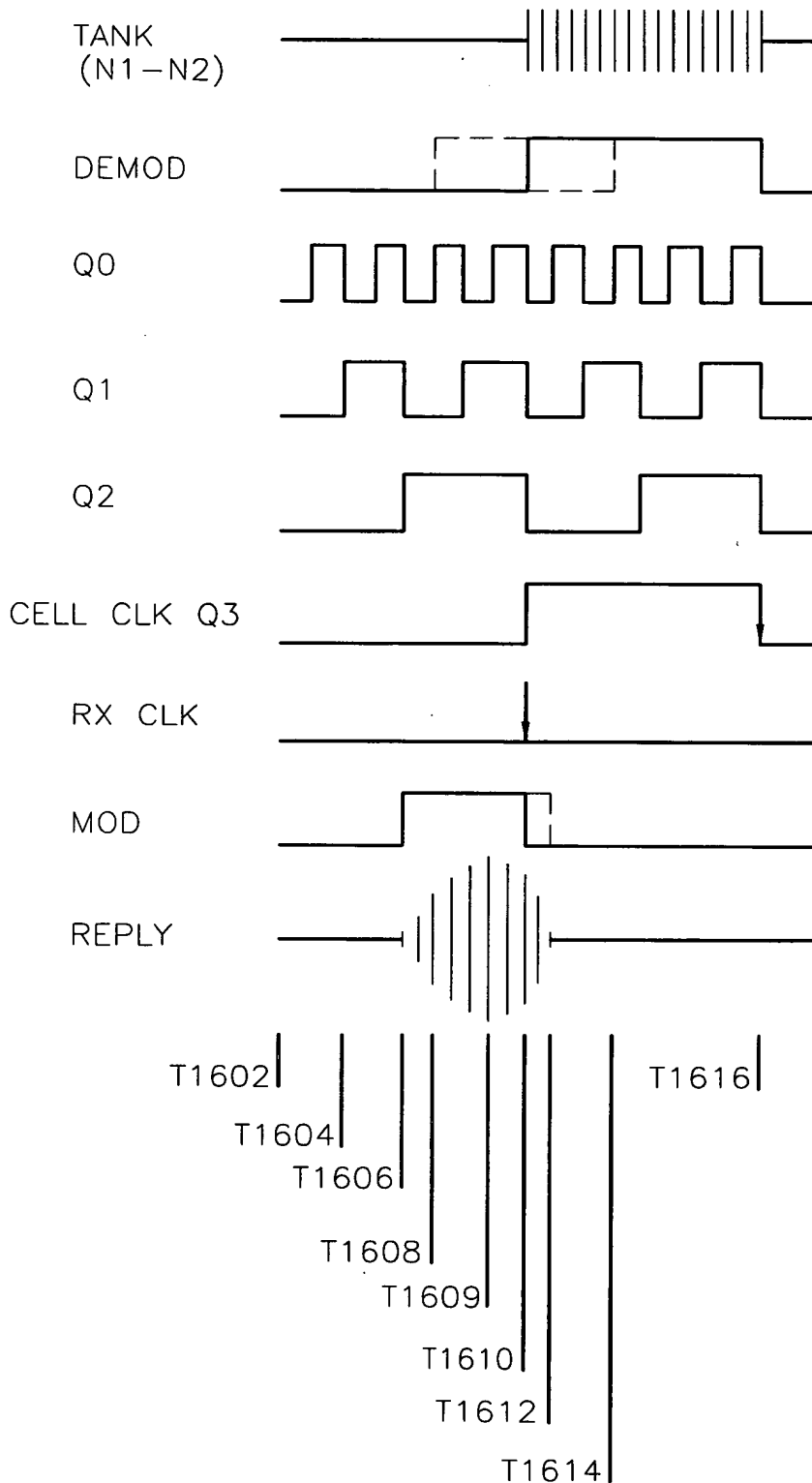


FIG. 16

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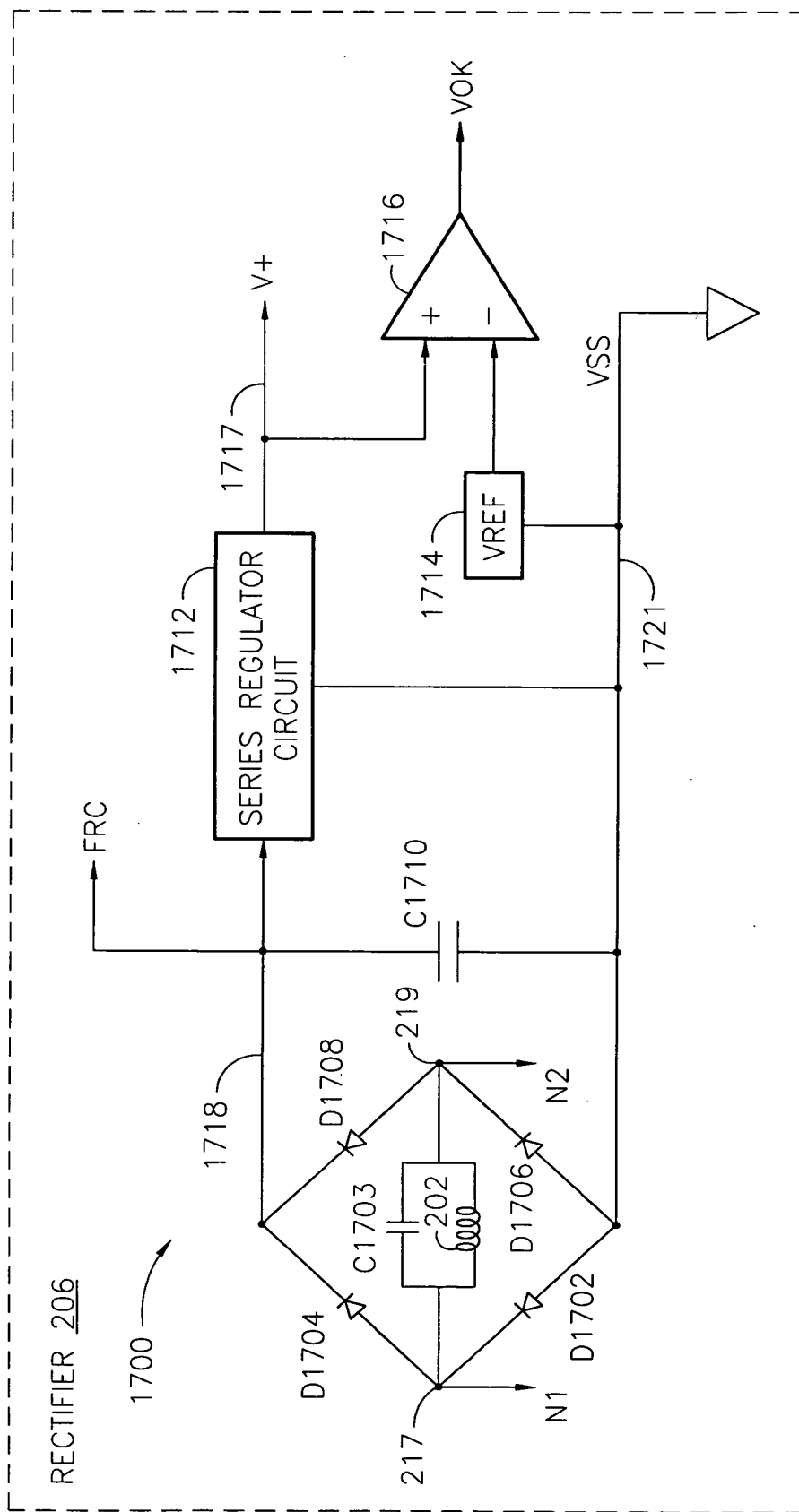


FIG. 17

+

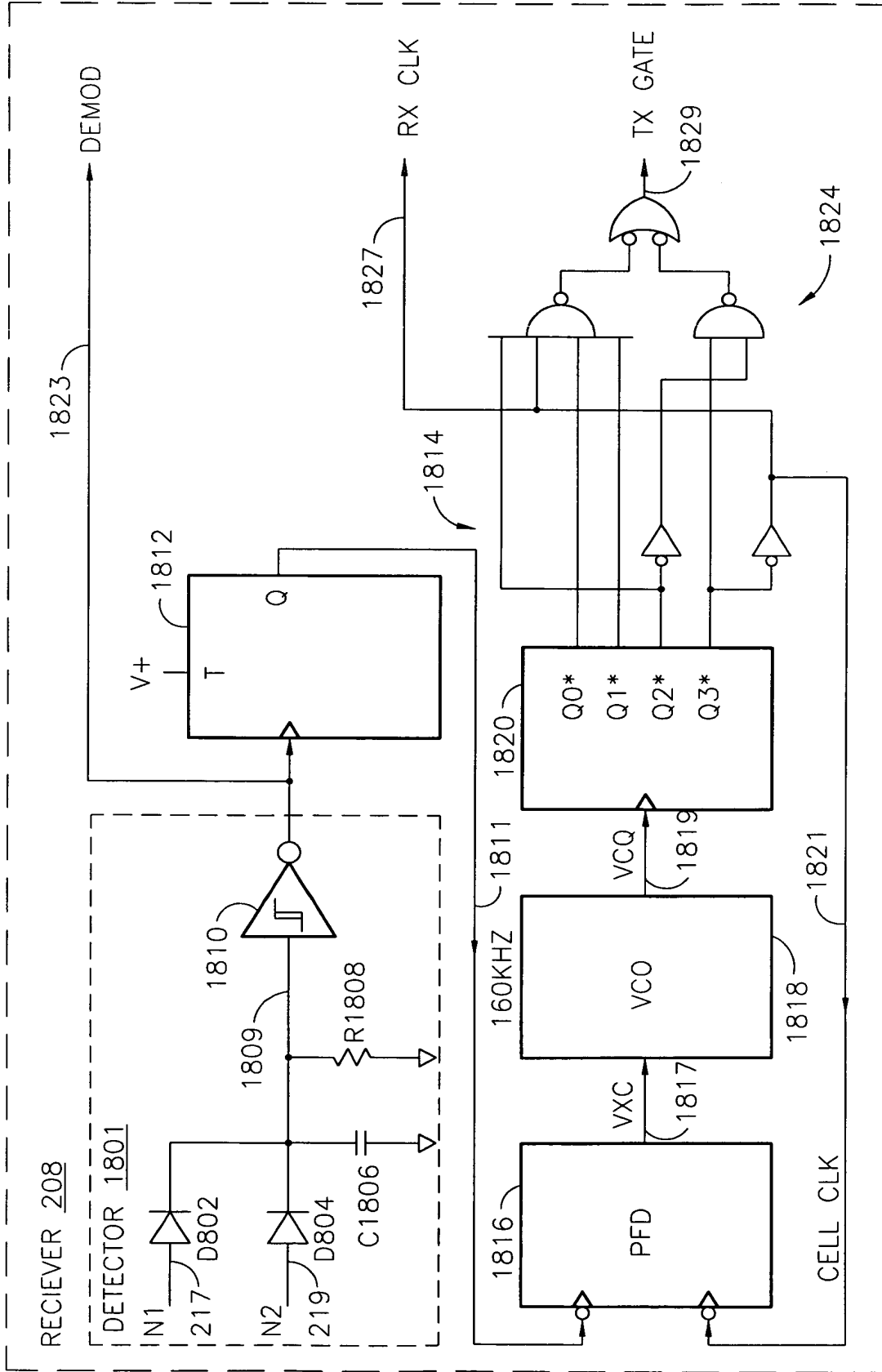


FIG. 18

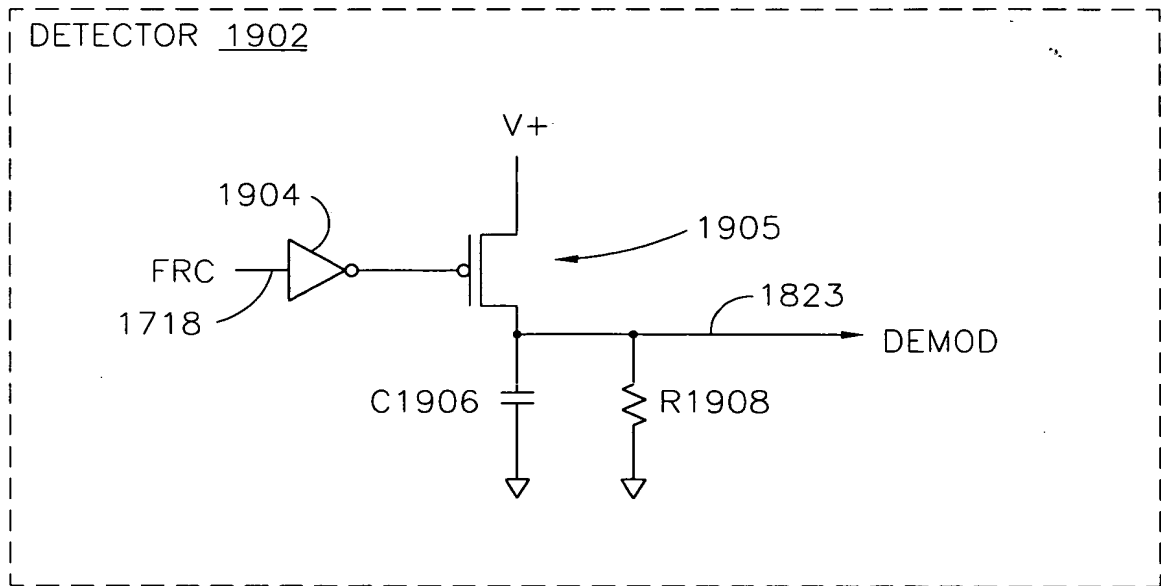


FIG. 19

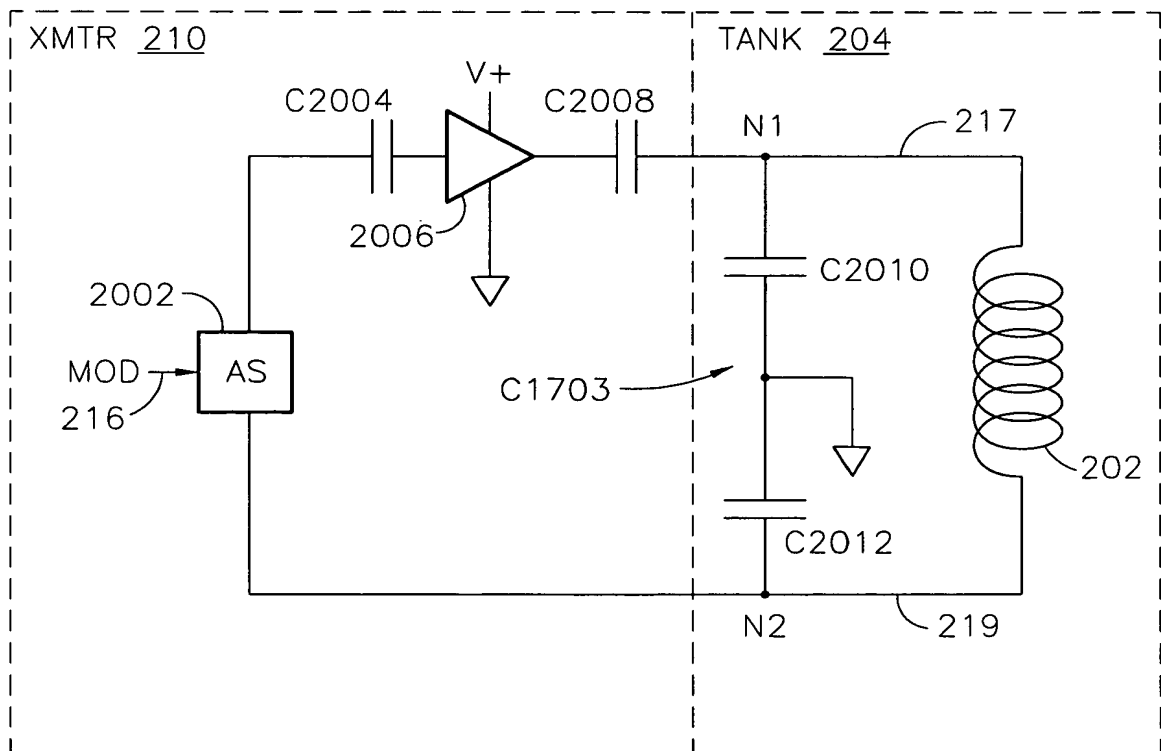


FIG. 20

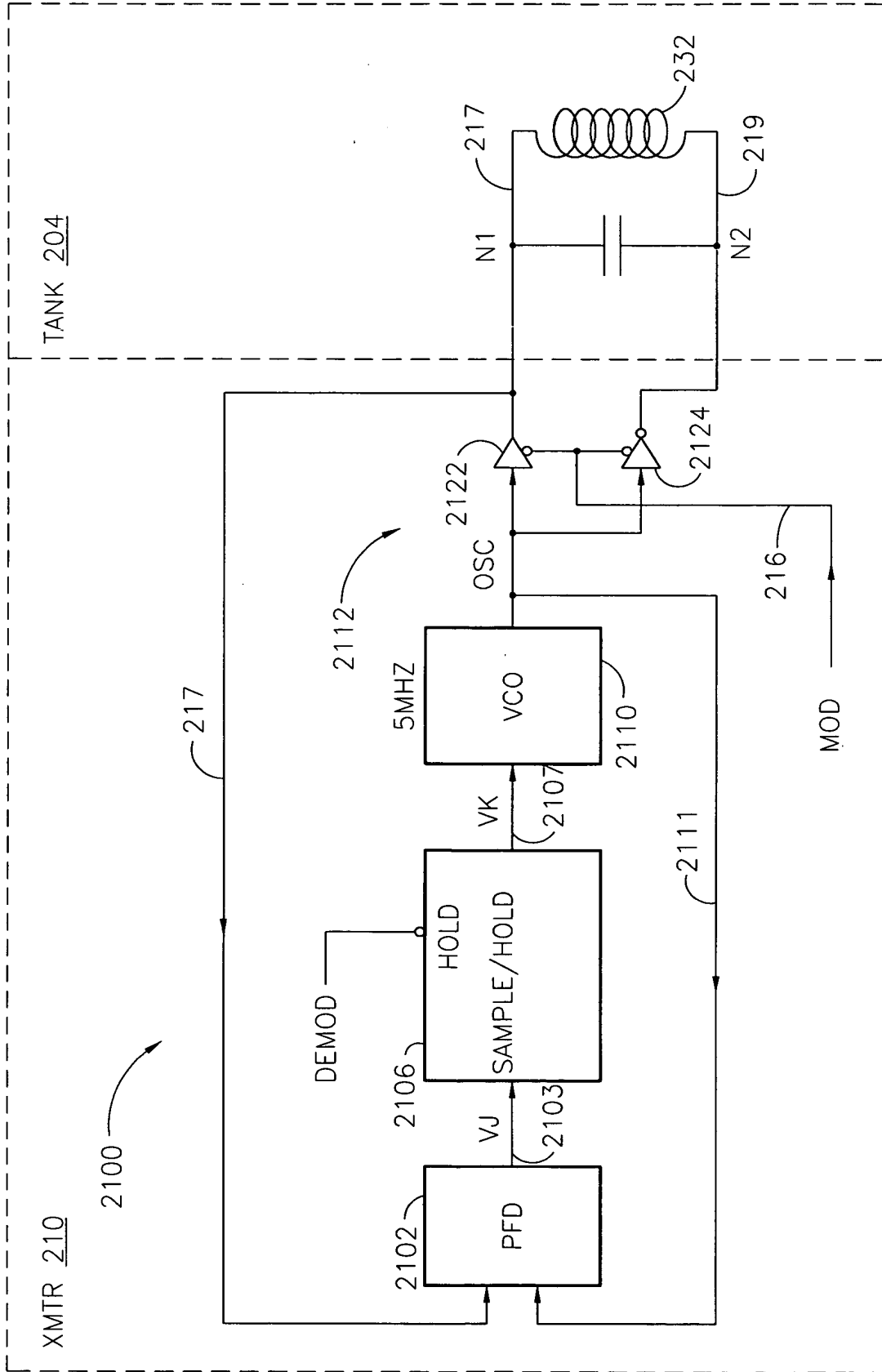


FIG. 21

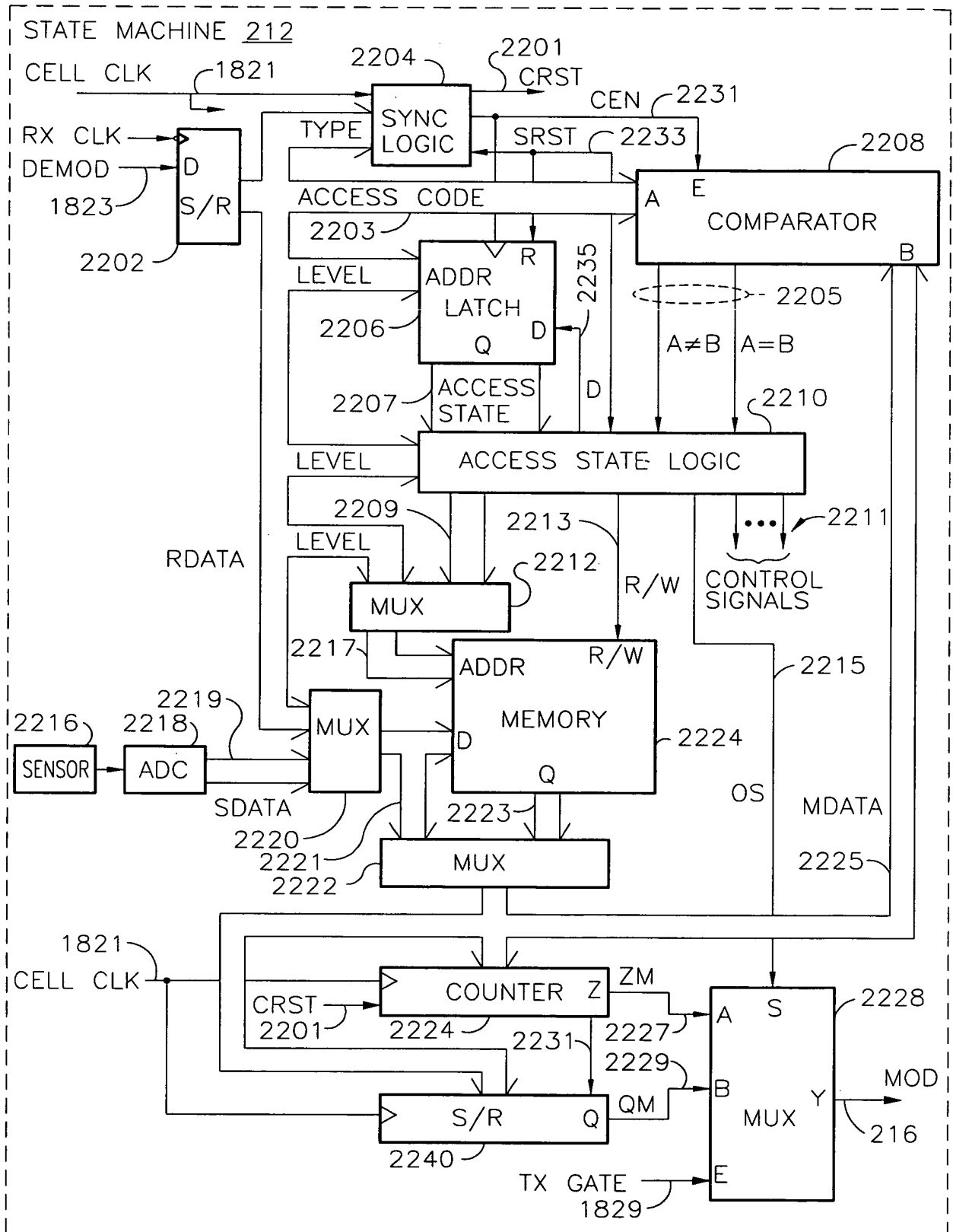


FIG. 22

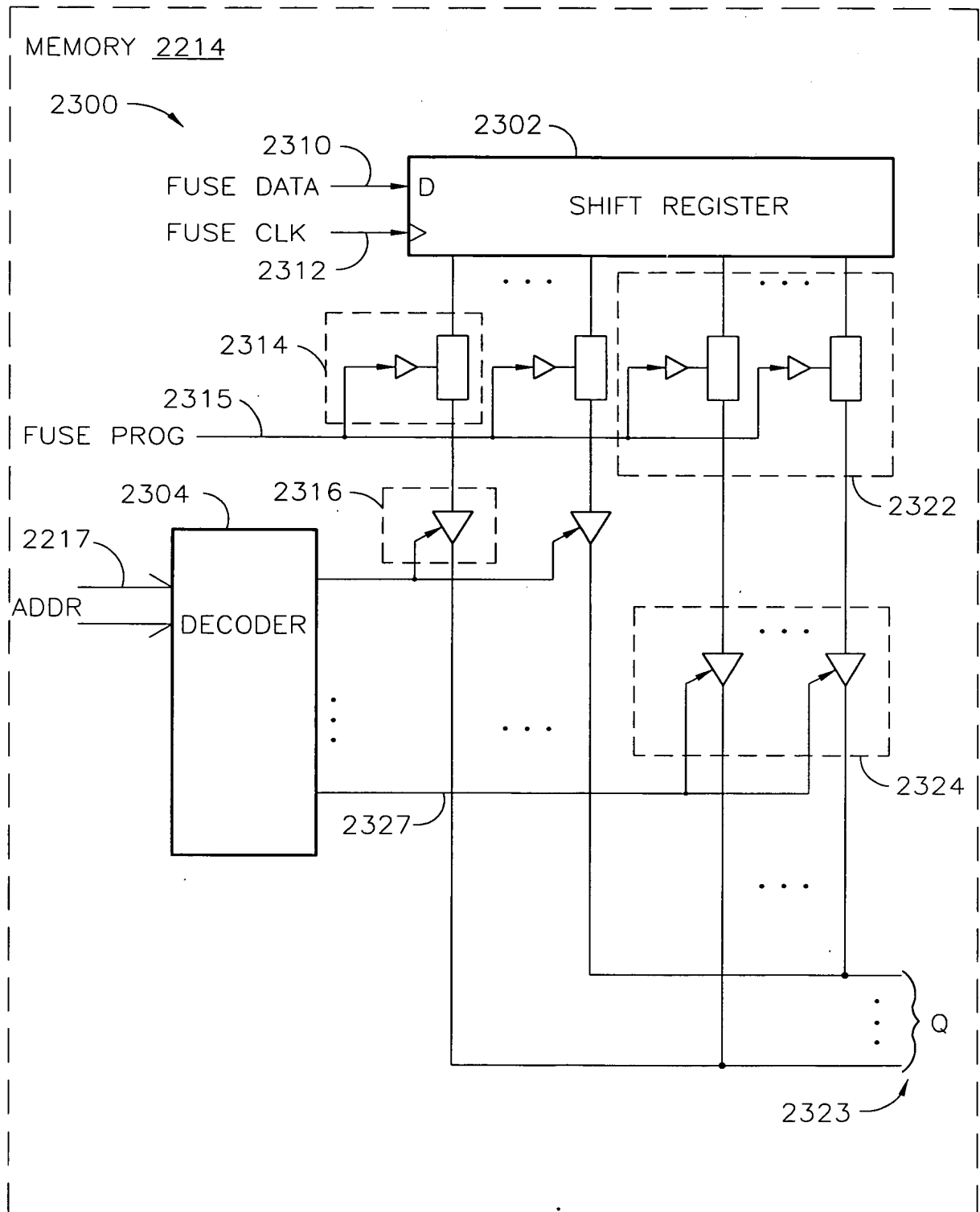


FIG. 23

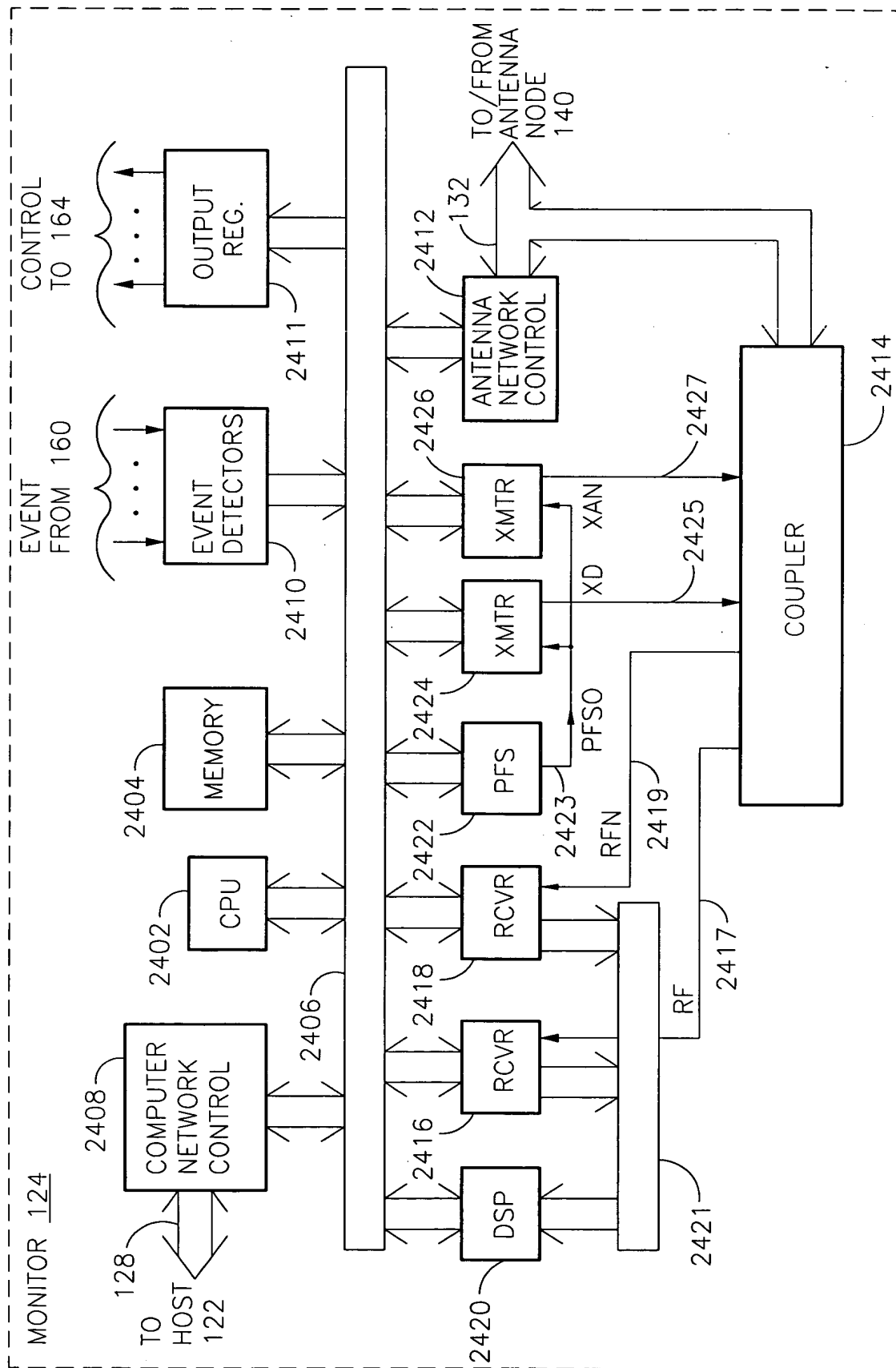


FIG. 24

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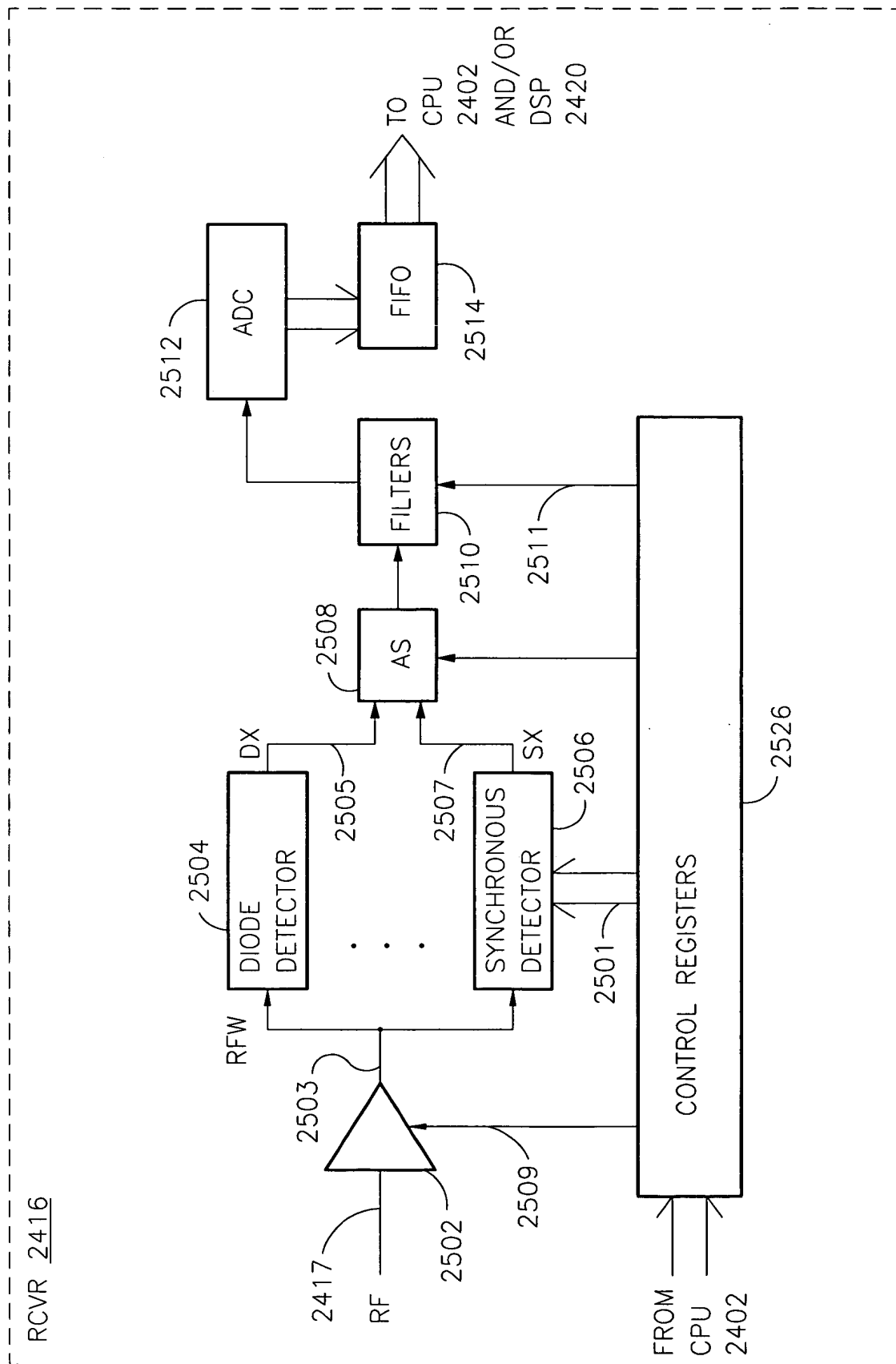


FIG. 25

DIODE DETECTOR 2504

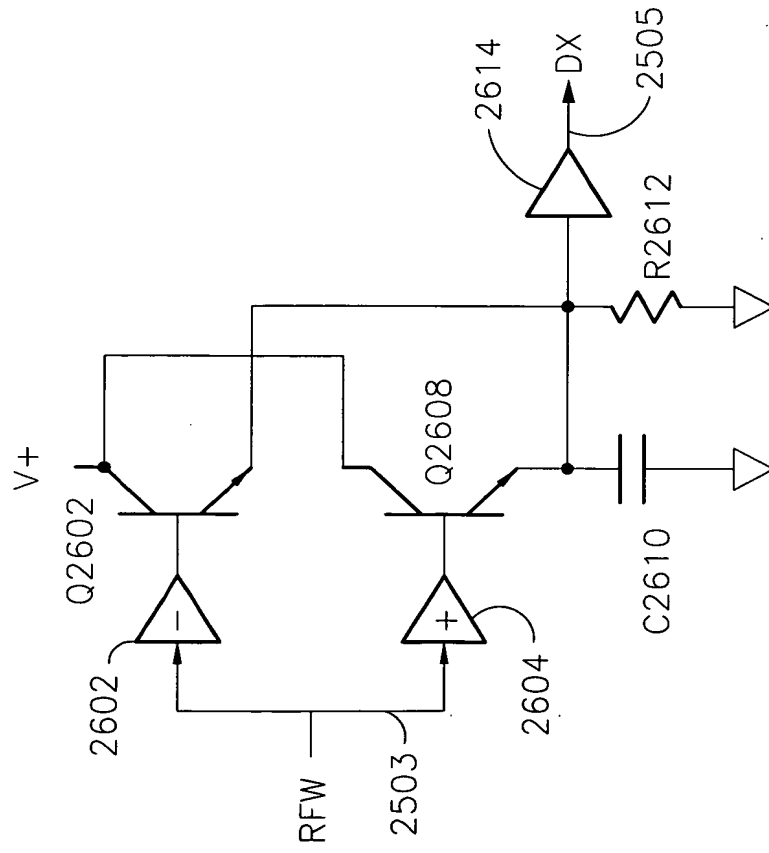


FIG. 26

SYNCHRONOUS DETECTOR 2506

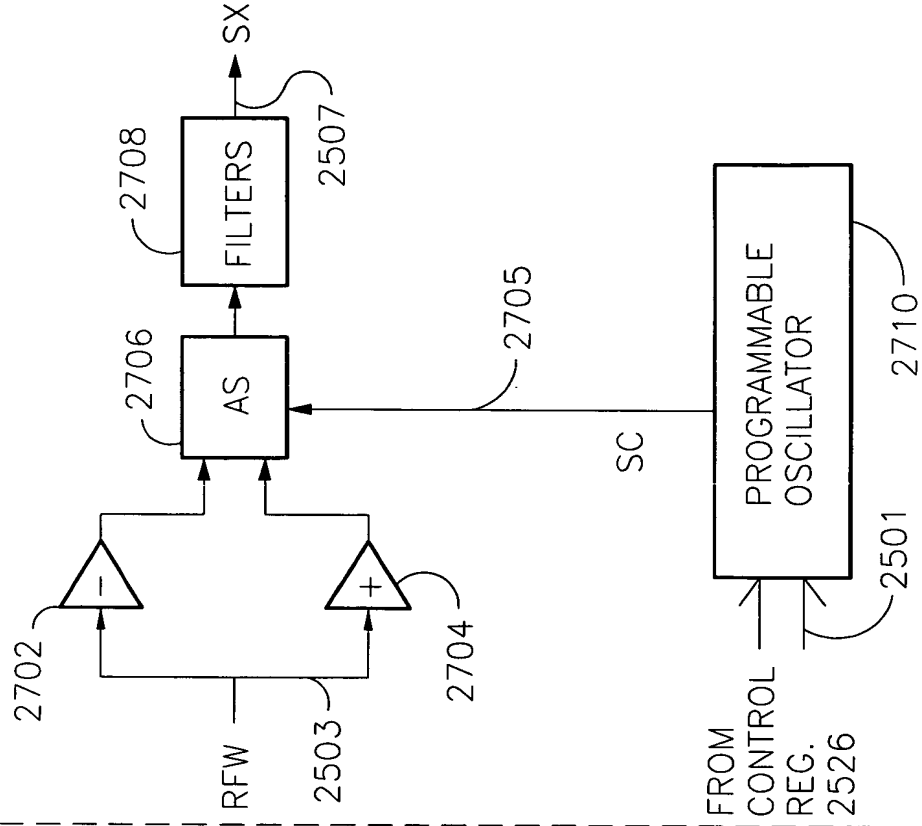


FIG. 27

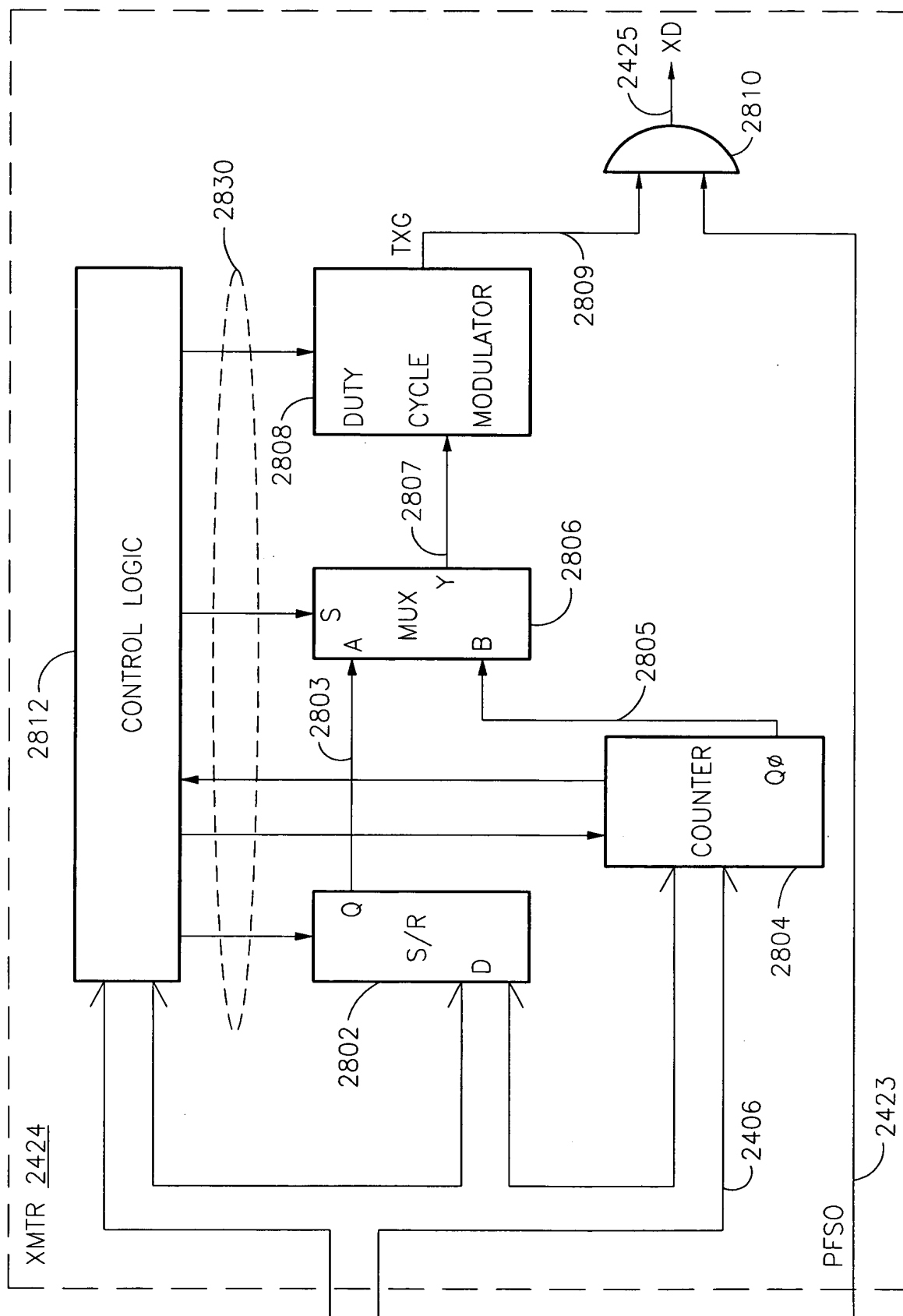


FIG. 28

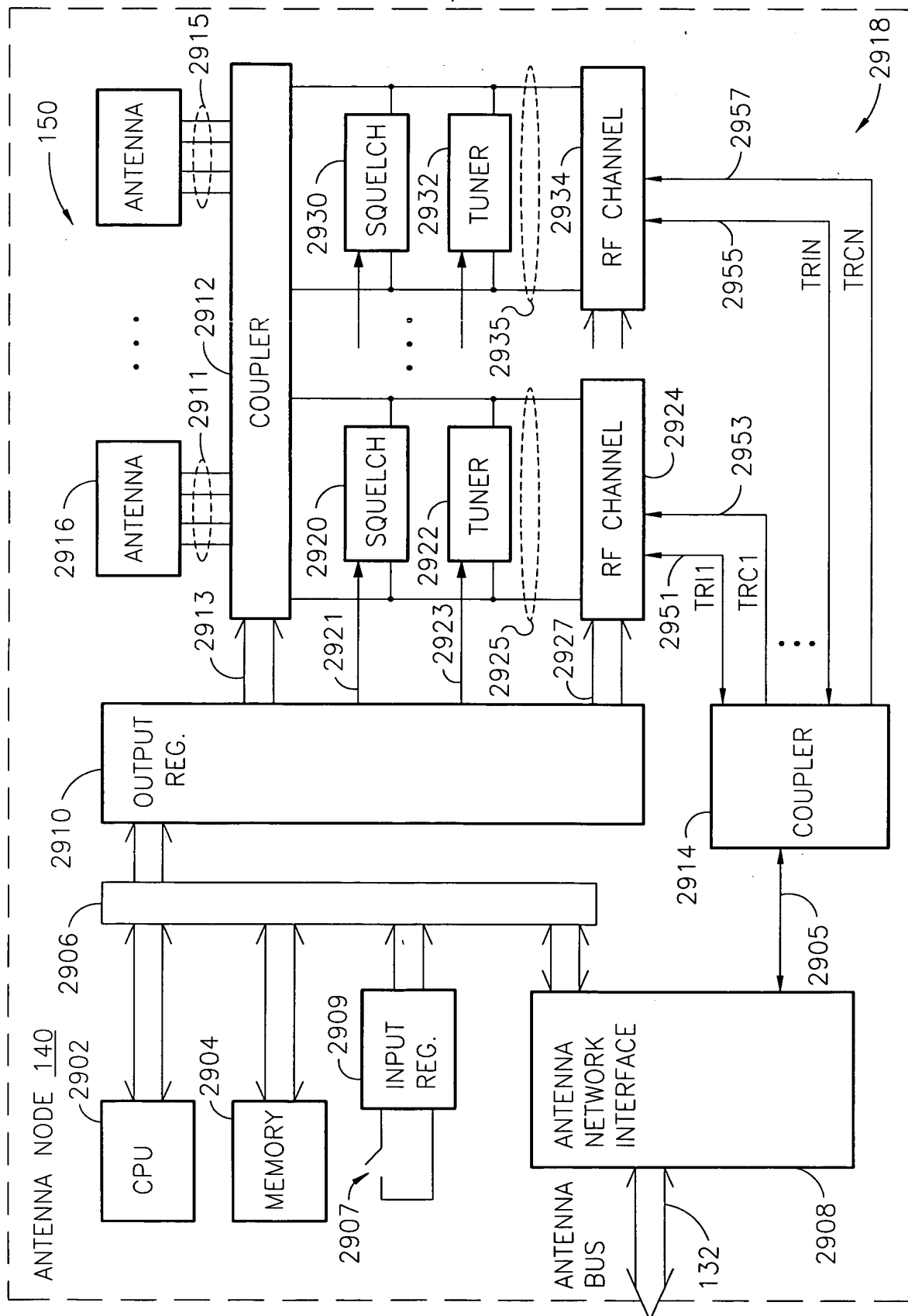


FIG. 29

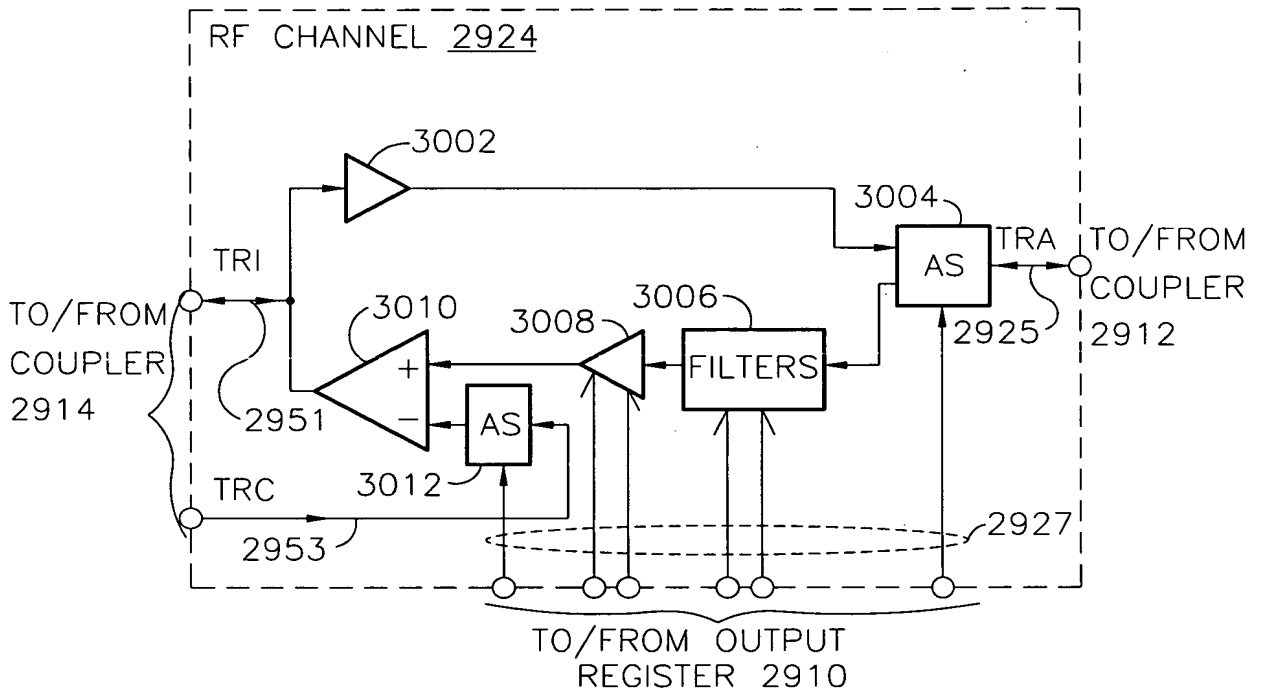


FIG. 30

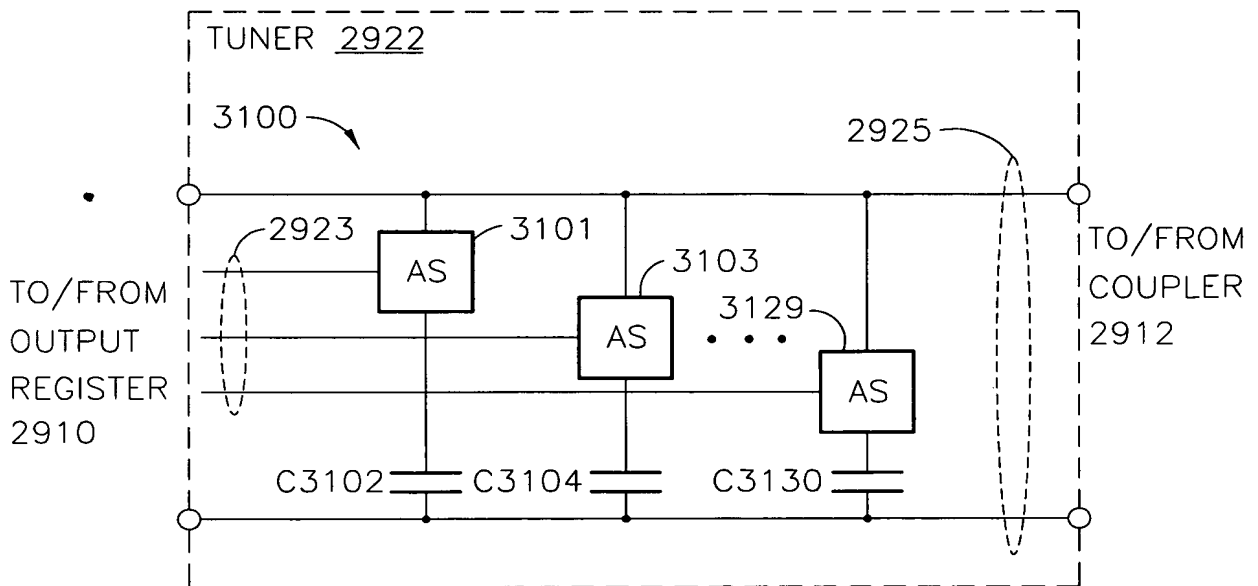
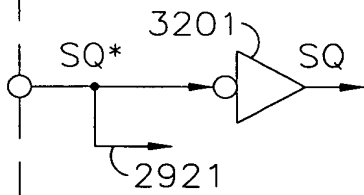


FIG. 31

SQUELCH 2920



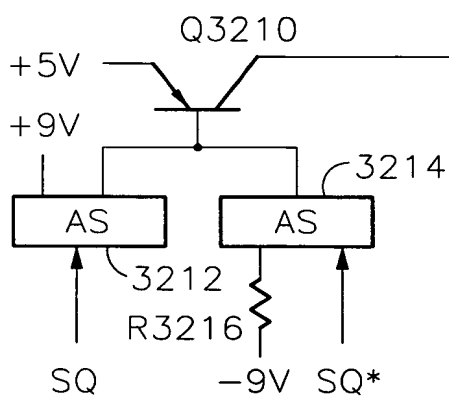
2925

3281

3282

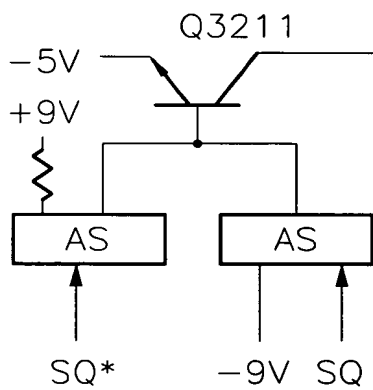
GSP 3202

FRP 3204



GSN 3206

FRN 3208



FRP 3244

GSP 3242

FRN 3248

GSN 3246

FIG. 32



| PLANAR ANTENNAS | | | |
|-----------------|-----------------------------|---------------|---|
| REF. | POINTS DEFINING PLANE | SQUELCH AT | ORIENTATION |
| 3401 | ABCD | V | PARALLEL TO XZ PLANE |
| 3402 | FGH | U | PARALLEL TO XZ PLANE |
| 3403 | JKL | T | PARALLEL TO XZ PLANE AT MIDDLE OF PASSAGE |
| 3404 | BCP | T | $\alpha = 45^\circ$ |
| 3405 | ANOD | T | $\alpha = 135^\circ$ |
| 3406 | AJOL | S | $\alpha = 135^\circ$ AND $\delta = 135^\circ$ |
| 3407 | LCJ | U | $\alpha = 45^\circ$ AND $\delta = 45^\circ$ |
| 3408 | ABN | J | PARALLEL TO XY PLANE |
| 3409 | BCON | K | PARALLEL TO YZ PLANE |
| 3410 | ADP | L | PARALLEL TO YZ PLANE |

FIG. 34

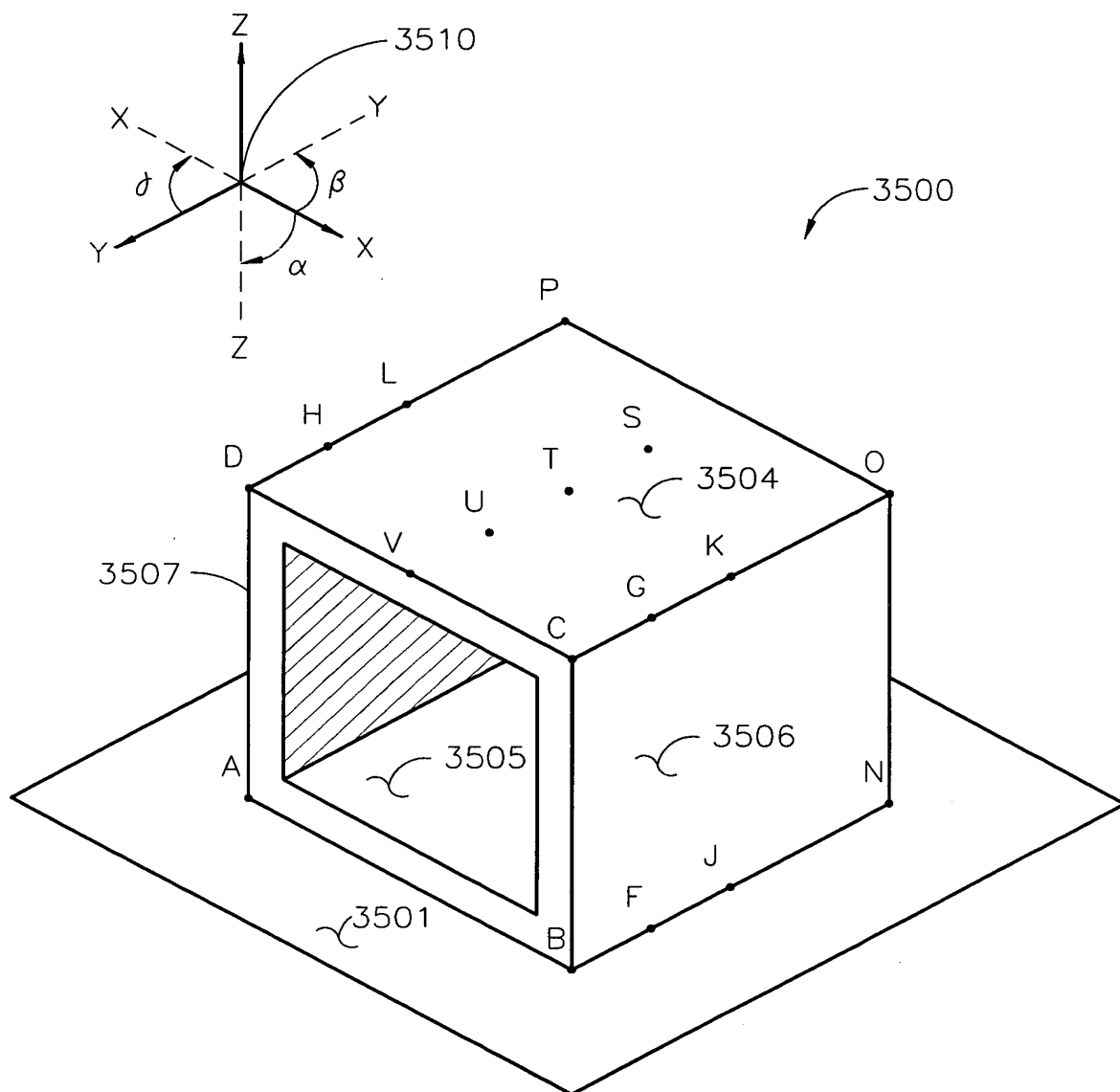


FIG. 35

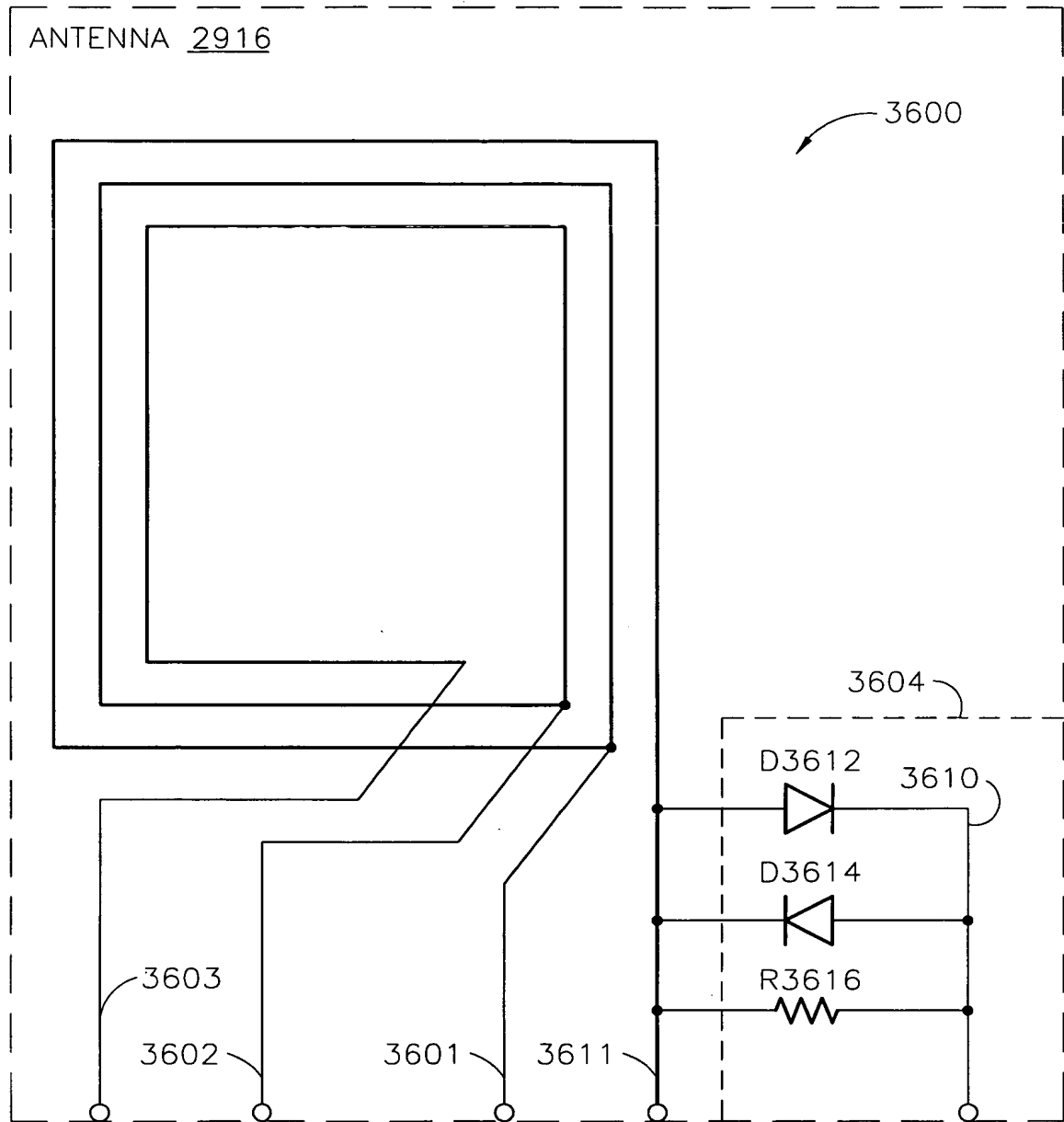


FIG. 36

FIG. 37

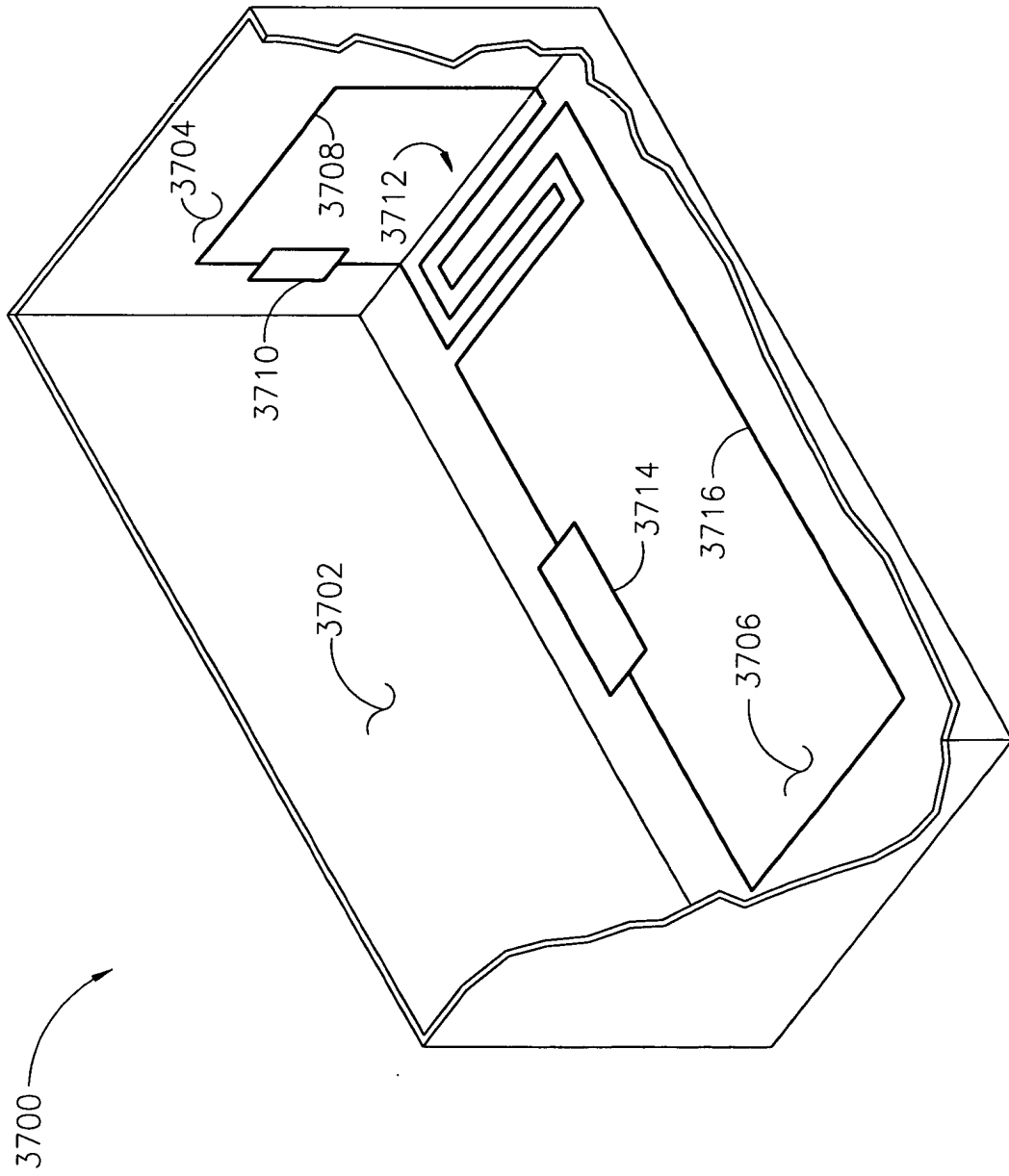


FIG. 37